

ALPHA DATA

DESIGN, DEVELOP, DEPLOY

ALPHA-DATA.COM

Low-Latency and Custom Communications
Version 9: February 2026

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Established in 1993 and with offices in the US and UK, Alpha Data is the leading global supplier of state-of-the-art solutions targeted at compute-intensive applications, including high performance COTS reconfigurable platforms and support software.

A leading provider of AMD Xilinx FPGA-based plug-in acceleration, SoC, RFSoC and embedded computing solutions, Alpha Data caters to deployment in Extreme environments, including Space and New Space markets.

We support clients worldwide to take projects from the design board to production and deployment, and specialise in solutions for Rugged and Embedded Communications, High-Reliability Development, Digital Signal Processing and High Performance Computing.

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Contact us

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ADM-PA120

A powerful, flexible data processing solution engineered for demanding computational environments and evolving computing challenges.

The ADM-PA120 board is a high-performance acceleration platform leveraging the AMD Versal™ Premium Adaptive SoC, designed for critical and rapid data processing, networking applications, and complex computational tasks.

- Over 3.7 million logic units [VP1502] for maximum data processing performance
- Configurable Versal™ Adaptive SoC for high-performance network, providing flexibility without compromising power
- Adaptable to a wide range of applications, from network traffic analysis to threat detection
- Three QSFP-DD interfaces capable of 10/40/100/200/400Gsynchronous ethernet for interoperable computer networking over GTY or GTM



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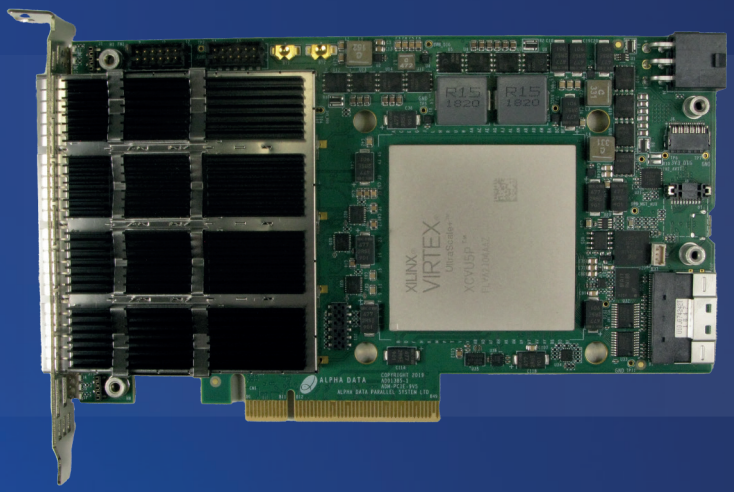
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ADM-PCIE-9V5

A high-performance reconfigurable computing card for high-speed Data Center applications, including low latency and high-frequency trading.

The ADM-PCIE-9V5 board is a ready-to-deploy board. A critical combination of AMD Xilinx Virtex UltraScale+ VU9P-3 FPGA power and maximum front panel Ethernet connectivity options, potentially supporting up to thirty-two 10GbE interfaces, in a single slot PCIe Gen3 x8 3/4 length board. The result is a low latency, high throughput and high density compute solution.

- **AMD Xilinx** Virtex UltraScale+ VU9P-3 FPGA
- Single Slot 1/2 Length, Full Height, x8 PCIe Form Factor
- System monitoring microcontroller for accurate power utilization feedback
- 896 Gbps capacity (4x QSFP-DD cages,32 channels)
  Ultraport SlimSAS connectors suitable for IO expansion
  Optional Firefly Interface



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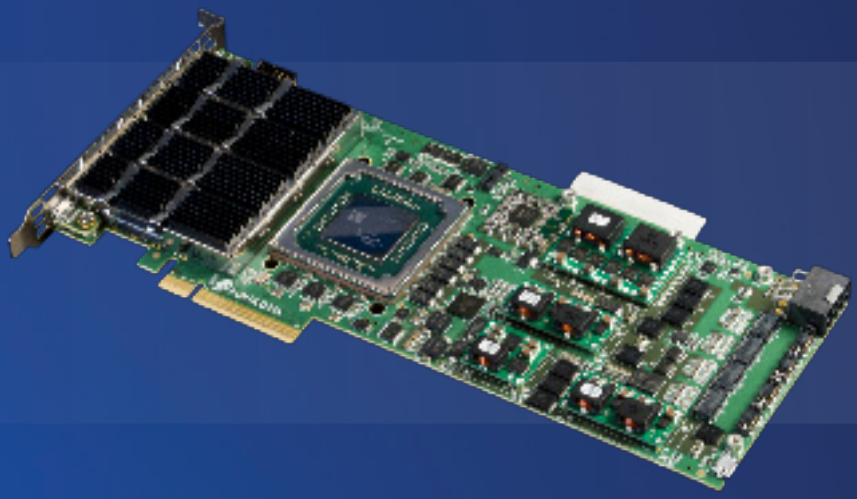
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ADM-PCIE-9V8

An ultra-low latency trading platform designed for high-frequency financial environments and sophisticated network infrastructure.

The ADM-PCIE-9V8 board is a precision-engineered PCIe add-in card featuring the AMD UltraScale+ VU2P with GTF transceivers, optimized for advanced trading strategies and high-speed data transmission.

- AMD UltraScale+ VU2P
  An optimized FPGA for ultra low latency communications signal traces
- Single-slot PCIe form factor, ideal for trading platforms, financial infrastructure, and high-speed networking environments
- On board microcontroller for remote management, configuration and system monitoring
- 32 front-panel and 16 rear GTF lanes for maximum trading network performance



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ADM-R9100

A robust 1U network appliance engineered for advanced data center deployments and high-speed communication infrastructures.

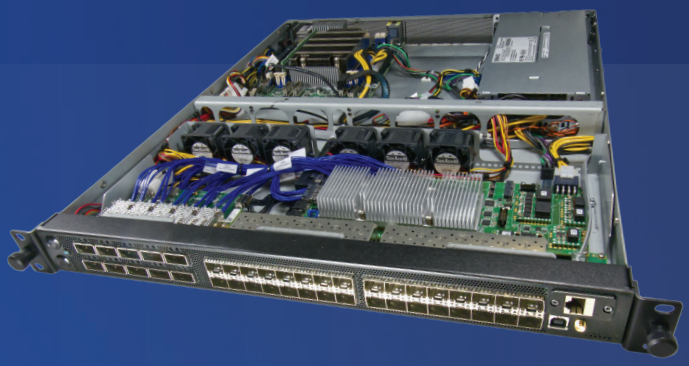
The ADA-R9100 rack mount solution is based around the AMD UltraScale+ VU2P FPGA with a comprehensive system monitoring platform, designed for demanding network and trading environments with trace delays of less than 1ns.

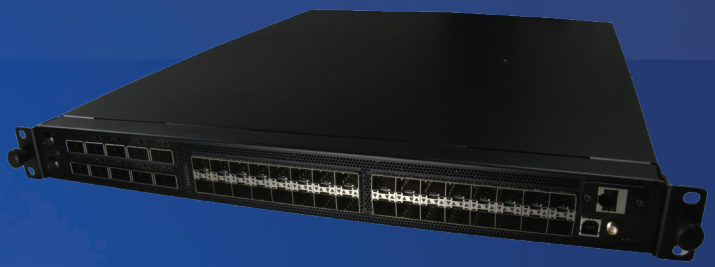
AMD UltraScale+ VU2P An optimized FPGA for ultra low latency communications signal traces
AMD EPYC 7232P CPU For control, management and exchange co-located x86 processing

1U rack mount form factor, ideal for data center and trading infrastructure deployments.

Server-class reliability with dual redundant power supply.Comprehensive system monitoring capabilities for remote management

72 GTF transceivers supporting 10Gbit and faster Ethernet trading feeds





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